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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/763,948	06/08/2001	Thomas Jackson	3672-0111P	3940	
2292 75	590 03/23/2004		EXAMINER		
BIRCH STEW	VART KOLASCH & BII	SIEW, JEFFREY			
PO BOX 747 FALLS CHURCH,VA 22040-0747			ART UNIT	PAPER NUMBER	
TALLS CHOR	C11, V11 22010 0717		1637		
			DATE MAILED: 03/23/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.	Applicant(s) JACKSON ET AL.		
09/763,948			
Examiner	Art Unit		
Jeffrey Siew	1637		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM

- Exter after - If the - If NO - Failu Any r	period for reply is specified above, the maximum s	s of 37 CFR 1.136(a). In no eve munication. 30) days, a reply within the statu statutory period will apply and wil y will. by statute. cause the appl	tory minimum of thirty (30) days will be considered timely. I expire SIX (6) MONTHS from the mailing date of this communication. cation to become ABANDONED (35 U.S.C. § 133).			
Status						
1)🖂	Responsive to communication(s) fil	ed on <u>09 December 20</u>	<u>903</u> .			
2a)⊠	This action is FINAL .	2b) ☐ This action is no	on-final.			
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the pract	tice under <i>Ex parte</i> Q <i>u</i>	ayle, 1935 C.D. 11, 453 O.G. 213.			
Dispositi	ion of Claims					
4) 🖂	Claim(s) 1-25 is/are pending in the	application.				
	4a) Of the above claim(s) is/a	are withdrawn from cor	sideration.			
5)	Claim(s) is/are allowed.					
	6)⊠ Claim(s) <u>1-8,10-20 and 22-24</u> is/are rejected.					
	Claim(s) 9,21 and 25 is/are objecte					
8)□	Claim(s) are subject to restri	iction and/or election re	equirement.			
Applicati	ion Papers					
9) 🗌	The specification is objected to by the	ne Examiner.				
10)⊠	The drawing(s) filed on <u>08 June 200</u>	<u>01</u> is/are: a)⊠ accepte	d or b) objected to by the Examiner.			
	Applicant may not request that any obje	ection to the drawing(s) b	e held in abeyance. See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including	g the correction is require	ed if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to	to by the Examiner. No	te the attached Office Action or form PTO-152.			
Priority ι	under 35 U.S.C. § 119		•			
12)⊠	Acknowledgment is made of a claim	n for foreign priority und	ler 35 U.S.C. § 119(a)-(d) or (f).			
a)[⊠ All b) Some * c) None of:					
	1. Certified copies of the priority	y documents have bee	n received.			
Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attach	,t(a)					
Attachmen 1) Notice	ce of References Cited (PTO-892)		4) Interview Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)			Paper No(s)/Mail Date			
	mation Disclosure Statement(s) (PTO-1449 o er No(s)/Mail Date	or PTO/SB/08)	5) Notice of Informal Patent Application (PTO-152) 6) Other:			

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DETAILED ACTION

THE FOLLOWING IS A NEW GROUND OF REJECTION NECESSITATED BY THE AMENDMENT

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8, 10-20,22-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Sato et al (Jan. 22,1991).

Sato et al teach a device comprising a substrate of an inorganic dielectric (see whole doc. esp. figure 1 & example 1, layer 2 - electrode of metal oxide), charge transfer material which forms a charge transfer complex with an organic semiconductor wherein the charge transfer material comprises donors or acceptors, forms a self assembling layer and bonded to substrate (see figure 1 & example 1 layer 3 a first organic thin film containing acceptor molecules and a second organic thin film containing donor molecules (layer 4). The thin film would meet the limitation of organic semiconductor such as polycyclic compounds listed in column 13& 14 for example).

The response filed 12/9/03 has been considered and deemed persuasive in regards to the Nakayama reference. The response states that Nakayama et al do not teach the charge transfer

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occurs between two layers - the charge transfer material and the organic semiconductor. This argument while convincing is however met by the above Sato et al reference. Sato et al teach two think film layers where one acts as donor and the other acceptor where charge transfer occurs between the layers.

SUMMARY

Claims 9, 21 & 25 are objected for depending on rejected claim. There is no prior art that 2. teach a DNA molecule in which one strand is bound to substrate of claimed device and other strand bound to charge transfer material. Nor is there prior art that teach the device with the claimed structures.

CONCLUSION

Applicant's amendment necessitated the new ground(s) of rejection presented in this 3. Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey Siew who can be reached at 571-272-0787. The e-mail address is Jeffrey.Siew@uspto.gov. However, the office cannot guarantee security through the e-mail system nor should official papers be transmitted through this route. The examiner is on flex-time schedule and can best be reached on weekdays from 6:30 a.m. to 3 p.m. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Gary Benzion, can be reached on (571)272-0782.

Any inquiry of a general nature, matching or filed papers or relating to the status of this application or proceeding should be directed to the <u>Tracey Johnson</u> for Art Unit 1637 whose telephone number is (571)272-0534.

Papers related to this application may be submitted to Group 1600 by facsimile transmission. Papers should be faxed to Group 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CM1 Center FAX is (703)-872-9306.

JEFFREY SIEW
PRIMARY EXAMINER